

Appl. No. 09/733,062
Amdt. dated September 16, 2004
Reply to Office action of August 13, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-7. (cancelled)

8. (original) A connection integrity monitor for monitoring a connection unit, said connection unit comprising a primary connection map for receiving connection control signals and a primary connection circuit for performing primary connections between a plurality of inputs and a plurality of outputs in order to connect a plurality of input signals at said plurality of inputs to said plurality of outputs as output signals, said primary connections based on said connection control signals, said monitor comprising:

a comparison map for receiving said connection control signals;

an input selection circuit for:

receiving said plurality of input signals;

selecting one of said plurality of input signals as a selected input signal;

an output selection circuit for:

receiving said plurality of output signals;

selecting one of said plurality of output signals as a selected output signal;

where at least one of said selecting one of said plurality of input signals and said selecting one of said plurality of output signals is based on said connection control signals;

a comparator for:

receiving said selected input signal;

Appl. No. 09/733,062
Amdt. dated September 16, 2004
Rcply to Office action of August 13, 2004

receiving said selected output signal; and

determining a connection integrity status indicator from said selected input
signal and said selected output signal.

9. (original) The monitor of claim 8 wherein said comparator includes a difference circuit for
generating a signal indicative of a difference between said selected input signal and said
selected output signal.

10. (original) The monitor of claim 9 wherein said difference circuit comprises an Exclusive
OR gate.

11. (original) The monitor of claim 9 wherein said comparator includes a threshold detector
for determining whether said difference indicative signal exceeds a threshold.

12. (original) The monitor of claim 9 wherein said comparator comprises a filter for filtering
said difference indicative signal.

13. (cancelled)